

INTERNATIONAL SEARCH REPORT

International Application No
PCT/IB2004/002464

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C07K16/28 G01N33/52

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 C07K G01N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, BIOSIS, PAJ, WPI Data, Sequence Search

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>WARREN H S ET AL: "Functional analysis of CD158b monoclonal antibodies recognizing the killer Ig-like receptors KIR2DS2, KIR2DL2 and KIR2DL3" TISSUE ANTIGENS, vol. 55, no. Supplement 1, 2000, pages 80-81, XP009040899 & 7TH WORKSHOP AND CONFERENCE ON HUMAN LEUCOCYTE DIFFERENTIATION ANTIGENS; HARROGATE, ENGLAND, UK; JUNE 20-24, 2000 ISSN: 0001-2815 abstract</p> <p style="text-align: center;">----- -/--</p>	1,2,10, 11,33

☒ Further documents are listed in the continuation of box C.

☐ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *G* document member of the same patent family

Date of the actual completion of the international search

20 December 2004

Date of mailing of the international search report

19/01/2005

Name and mailing address of the ISA

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	SPAGGIARI GRAZIA MARIA ET AL: "Soluble HLA class I induces NK cell apoptosis upon the engagement of killer-activating HLA class I receptors through FasL-Fas interaction." BLOOD, vol. 100, no. 12, 1 December 2002 (2002-12-01), pages 4098-4107, XP002308878 ISSN: 0006-4971 abstract	1,3,4, 10,12, 13,30,33
Y	paragraphs 'OMAT!, 'METH!	31,32, 52-55
Y	----- SHIN J-S ET AL: "MONOCLONAL ANTIBODIES WITH VARIOUS REACTIVITY TO P58 KILLER INHIBITORY RECEPTORS" HYBRIDOMA, LIEBERT, NEW YORK, NY, US, vol. 18, no. 6, December 1999 (1999-12), pages 521-527, XP001041418 ISSN: 0272-457X abstract	16-21, 23-27, 29-32, 51-55
Y	----- MORETTA-A ET AL.: "A novel surface antigen expressed by a subset of human CD3-minus CD16-positive natural killer cells: role in cell activation and regulation of of cytolytic function" JOURNAL OF EXPERIMENTAL MEDICINE, vol. 171, no. 3, 1990, pages 695-714, XP002309351 cited in the application abstract	16-21, 23-27, 29-32, 51-55
Y	----- KOH CRYSTAL Y ET AL: "NK inhibitory-receptor blockade for purging of leukemia: effects on hematopoietic reconstitution." BIOLOGY OF BLOOD AND MARROW TRANSPLANTATION : JOURNAL OF THE AMERICAN SOCIETY FOR BLOOD AND MARROW TRANSPLANTATION. 2002, vol. 8, no. 1, 2002, pages 17-25, XP002308879 ISSN: 1083-8791 the whole document	16-21, 23-27, 29-32, 51-55
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PC 17 1B2004/002464

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	FARAG SHERIF S ET AL: "Natural killer cell receptors: New biology and insights into the graft-versus-leukemia effect" BLOOD, vol. 100, no. 6, 15 September 2002 (2002-09-15), pages 1935-1947, XP002308880 ISSN: 0006-4971 the whole document	1-55
A	BARTEN R ET AL: "Divergent and convergent evolution of NK-cell receptors" TRENDS IN IMMUNOLOGY, ELSEVIER, CAMBRIDGE, GB, vol. 22, no. 1, 1 January 2001 (2001-01-01), pages 52-57, XP004255853 ISSN: 1471-4906	1-55
A	MORETTA ALESSANDRO ET AL: "Activating receptors and coreceptors involved in human natural killer cell-mediated cytotoxicity" ANNUAL REVIEW OF IMMUNOLOGY ANNUAL REVIEWS {A}, 4139 EL CAMINO WAY, PALO ALTO, CA, 94303-0139, USA SERIES : ANNUAL REVIEW OF IMMUNOLOGY (ISSN 0732-0582), 2001, pages 197-223, XP002308881 ISSN: 0-8243-3019-6	1-55
A	MORETTA ALESSANDRO ET AL: "Receptors for HLA class-I molecules in human natural killer cells" ANNUAL REVIEW OF IMMUNOLOGY ANNUAL REVIEWS INC. {A}, P.O. BOX 10139, 4139 EL CAMINO WAY, PALO ALTO, CALIFORNIA 94306, USA SERIES : ANNUAL REVIEW OF IMMUNOLOGY (ISSN 0732-0582), 1996, pages 619-648, XP002308882 ISSN: 0-8243-3014-5	1-55

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Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
see FURTHER INFORMATION sheet PCT/ISA/210
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box II.1

Although claims 42-50 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.

Although claims 52 would appear to be directed to a diagnostic method practised on the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.